

IDS Form PTO/SB/08: Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet	1	of	1
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Complete if Known	
Application Number	09/821,172
Filing Date	March 29, 2001
First Named Inventor	Darin Wayne HIGGINS et al.
Art Unit	2672
Examiner Name	AMINI, Javid A.
Attorney Docket Number	09090.0002-03

U.S. PATENTS AND PUBLISHED U.S. PATENT APPLICATIONS					
Examiner Initials	Cite No. ¹	Document Number	Issue or Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
JA		US-5,381,338	01-10-1995	Wysocki et al.	
JA		US-6,577,714	06-10-2003	Darcie et al.	
JA		US-6,339,745	01-15-2002	Novik	
JA		US-5,594,650	01-14-1997	Shah et al.	

Note: Submission of copies of U.S. Patents and published U.S. Patent Applications is not required.

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Examiner Signature	/Javid Amini/	Date Considered	07/25/2006
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JA		US-5,884,219	03-16-1999	Curtwright et al.	
JA		US-5,638,501	06-10-1997	Gough et al.	
JA		US-6,218,965	04-17-2001	Grendron et al.	

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JA		Wiselimage X Quick Start, Consistent Software, 2000-2005, p. 1-77.	
JA		Wiselimage X for Windows, IDEAL.com, 2000-2005, p. 1-2.	
JA		FEKETE, JEAN-DANIEL et al., "Using the Multi-layer Model for Building Interactive Graphical Applications," ACM, pp. 109-118, 1996.	

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IDS Form PTO/SB/08: Substitute for form 1448A/PTO <h2 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center;">(Use as many sheets as necessary)</p>			Complete if Known		
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			Examiner Name	AMINI, Javid A.	
			Attorney Docket Number	09080.0002-03	
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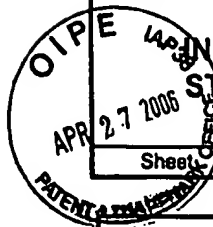
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JA		US-4,254,467	03-03-1981	Davis et al.	
JA		US-4,458,330	07-03-1984	Imsand et al.	
JA		US-4,852,183	07-25-1989	Abe et al.	
JA		US-4,876,651	10-24-1989	Dawson et al.	
JA		US-4,899,138	02-06-1990	Beard et al.	
JA		US-5,018,210	05-21-1991	Merryman et al.	
JA		US-5,050,222	09-17-1991	Lee	
JA		US-5,113,517	05-12-1992	Beard et al.	
JA		US-5,233,335	08-03-1993	Berwin	
JA		US-5,274,752	12-28-1993	Kawazome	
JA		US-5,323,317	08-21-1994	Hampton et al.	
JA		US-5,396,582	03-07-1995	Kahkoska	
JA		US-5,406,342	04-11-1995	Jongsma	
JA		US-5,418,908	05-23-1995	Berger et al.	
JA		US-5,428,546	06-27-1995	Shah et al.	
JA		US-5,487,139	01-23-1996	Saylor et al.	
JA		US-5,608,858	03-04-1997	Kurosu et al.	
JA		US-5,623,679	04-22-1997	Rivette et al.	
JA		US-5,623,681	04-22-1997	Rivette et al.	
JA		US-5,631,970	05-20-1997	Hsu	
JA		US-5,640,468	06-17-1997	Hsu	
JA		US-5,659,318	08-19-1997	Madsen et al.	
JA		US-5,682,525	10-28-1997	Bouve et al.	
JA		US-5,699,255	12-16-1997	Ellis et al.	
JA		US-5,715,331	02-03-1998	Hollinger	
JA		US-5,719,949	02-17-1998	Koeln et al.	
JA		US-5,734,756	03-31-1998	Sherman et al.	
JA		US-5,748,777	05-05-1998	Katayama et al.	
JA		US-5,748,778	05-05-1998	Onoguchi	
JA		US-5,757,359	05-28-1998	Morimoto et al.	
JA		US-5,771,169	06-23-1998	Wendte	
JA		US-5,857,199	01-05-1999	Tamano et al.	
JA		US-5,892,909	04-06-1999	Grasso et al.	



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			First Named Inventor	Darin Wayne HIGGINS et al.
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			Examiner Name	AMINI, Javid A.
			Attorney Docket Number	09090.0002-03
Sheet	2	4		

U.S. PATENTS AND PUBLISHED U.S. PATENT APPLICATIONS					
JA		US-5,907,630	05-25-1999	Naol et al.	
JA		US-5,929,842	07-27-1999	Vertregt et al.	
JA		US-5,929,865	07-27-1999	Balz et al.	
JA		US-5,930,474	07-27-1999	Dunworth et al.	
JA		US-5,937,014	08-10-1999	Pellin et al.	
JA		US-5,961,572	10-05-1999	Craport et al.	
JA		US-5,966,135	10-12-1999	Roy et al.	
JA		US-5,966,469	10-12-1999	Moon et al.	
JA		US-5,969,723	10-19-1999	Schmidt	
JA		US-5,969,728	10-19-1999	Dye et al.	
JA		US-5,974,423	10-26-1999	Margolin	
JA		US-5,978,804	11-02-1999	Dietzman	
JA		US-5,986,697	11-16-1999	Cahill, III	
JA		US-5,987,136	11-16-1999	Schipper et al.	
JA		US-5,987,173	11-16-1999	Kohn et al.	
JA		US-5,987,380	11-16-1999	Backman et al.	
JA		US-5,991,780	11-23-1999	Rivette et al.	
JA		US-5,995,023	11-30-1999	Kreft	
JA		US-5,999,878	12-07-1999	Hanson et al.	
JA		US-6,005,509	12-21-1999	Buckreuss	
JA		US-6,006,161	12-21-1999	Katou	
JA		US-6,008,756	12-28-1999	Boerhave et al.	
JA		US-6,044,324	03-28-2000	Boerhave et al.	
JA		US-6,061,618	05-09-2000	Hale et al.	
JA		US-6,084,989	07-04-2000	Eppler	
JA		US-6,119,069	09-12-2000	McCauley	
JA		US-6,148,260	11-14-2000	Musk et al.	
JA		US-6,181,105	12-12-2000	Keighan et al.	
JA		US-6,236,907	05-22-2001	Hauwiler et al.	
JA		US-6,249,742	06-19-2001	Friederich et al.	
JA		US-6,307,573	10-23-2001	Barros	
JA		US-6,377,210	04-23-2002	Moore	
JA		US-6,489,820	12-03-2002	Anders et al.	
JA		US-6,504,571	01-07-2003	Narayanaswami et al.	
JA		US-6,505,146	01-07-2003	Blackmer	

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Sheet

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 First Named Inventor Darin Wayne HIGGINS et al.
 Art Unit 2672
 Examiner Name AMINI, Javid A.
 Attorney Docket Number 09090.0002-03

U.S. PATENTS AND PUBLISHED U.S. PATENT APPLICATIONS

JA		US-6,538,674	03-25-2003	Shibata et al.	
JA		US-6,549,828	04-15-2003	Garrot et al.	
JA		US-6,606,542	08-12-2003	Hauwiler et al.	
JA		US-6,565,610	05-20-2003	Wang et al.	
JA		US-6,650,998	11-18-2003	Rutledge et al.	
JA		US-6,678,615	01-13-2004	Howard et al.	
JA		US-6,785,619	08-31-2004	Homann et al.	
JA		US-2001/0026270 A1	10-04-2001	Higgins et al.	
JA		US-2001/0028348 A1	10-11-2001	Higgins et al.	
JA		US-2001/0033290 A1	10-25-2001	Scott et al.	
JA		US-2001/0033291 A1	10-25-2001	Scott et al.	
JA		US-2001/0033292 A1	10-25-2001	Scott et al.	
JA		US-2002/0035432 A1	03-21-2002	Kubica et al.	
JA		US-2002/0143469	10-03-2002	Alexander et al.	
JA		US-2002/0145617 A1	10-10-2002	Kennard et al.	
JA		US-2002/0147613 A1	10-10-2002	Kennard et al.	
JA		US-2003/0052896 A1	03-20-2003	Higgins et al.	
JA		US-2005/0073532 A1	04-07-2005	Scott et al.	

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JA		JP 11-296540 A	10-29-1999	Nakano et al.		Yes

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JA		REDDY et al., "Under the Hood of GeoVRML 1.0," Proceedings of the Fifth Symposium on Virtual Reality Modeling Language (Web3D-VRML), February 2000.	
JA		BURTON et al., "Using High Performance GIS Software to Visualize Data: a Hands-On Software Demonstration," Proceedings of the 1998 ACM/IEEE Conference on Supercomputing (CDROM), November 1998.	
JA		G. WIEDERHOLD, "The Role of Government in Standards," StandardView, December 1993, Volume 1 Issue 2.	
JA		P. WILSON, "The Application of Computer Graphics to Environmental Planning," Proceedings of the ACM 1980 Annual Conference, January 1980.	
JA		CDS Mapping Systems, et al., "CDS Business Mapping," Feb. 02, 1999. http://web.archive.org/web/19990202115053/www.cdsys.com/index.html	

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NON PATENT LITERATURE DOCUMENTS			
JA		GeoPlace.com et al., "Mapping Awareness," 1999 http://web.archive.org/web/20000301085059/www/geoplace.com/archives.asp	
JA		JUL, et al., "Critical Zones in Desert Fog: Aids to Multi-scale Navigation," November 1998.	
JA		TAN, et al., "Exploring 3D Navigation: Combining Speed-Coupled Flying with Orbiting," March 2001.	
JA		MITCHELL, et al., "The NASA Digital Earth Testbed," November 2000.	
JA		RADFORD, "The Use of GIS in Flood Hazard Analysis: A Report for the City of Warwick and Project Impact," June 1999.	
JA		"R2V: Advanced Raster to Vector Conversion Software for Automated Map Digitizing," Able Software Corp., September 20, 1999, pages 1-4.	

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